

Title (en)

FREQUENCY OFFSET COMPENSATION IN CELLULAR COMMUNICATION SYSTEMS

Title (de)

KOMPENSATION VON FREQUENZOFFSETS IN ZELLULAREN KOMMUNIKATIONSSYSTEMEN

Title (fr)

COMPENSATION DE DÉCALAGE FRÉQUENTIEL DANS DES SYSTÈMES CELLULAIRES DE TÉLÉCOMMUNICATION

Publication

**EP 3800849 A1 20210407 (EN)**

Application

**EP 20209657 A 20170309**

Priority

- EP 16160533 A 20160315
- EP 16163943 A 20160405
- EP 16171552 A 20160526
- EP 17709447 A 20170309
- EP 2017055581 W 20170309

Abstract (en)

An infrastructure equipment, which forms part of a mobile communications network is configured to transmit signals to and receive signals from one or more communications devices. The infrastructure equipment comprises a receiver configured to receive signals on the uplink from the one or more communications devices via a wireless access interface of the mobile communications network, a transmitter configured to transmit signals on the downlink to the one or more communications devices via the wireless access interface, and a controller configured to control the receiver to receive the signals and to control the transmitter to transmit the signals. One of the communications devices is configured to control transmissions in order to avoid frequency drift. The communications device is configured to receive from the infrastructure equipment an indication of communications resources in which the transmitter can transmit signals to the infrastructure equipment, to determine whether a period required to transmit an uplink transmission to the infrastructure equipment in the indicated communications resources exceeds a predetermined threshold, and if so, subsequently to control the transmitter not to signals to the infrastructure equipment using the indicated communications resources. The communications device may be configured to search for a second infrastructure equipment to which the uplink transmission can be transmitted, and to control the transmitter to transmit signals to the second infrastructure equipment on second communications resources indicated by the second infrastructure equipment rather than using the indicated communications resources of the first infrastructure equipment.

IPC 8 full level

**H04L 27/00** (2006.01)

CPC (source: EP US)

**H04L 5/0064** (2013.01 - US); **H04L 5/0096** (2013.01 - US); **H04L 27/0012** (2013.01 - US); **H04L 27/0014** (2013.01 - EP); **H04W 48/10** (2013.01 - US); **H04W 72/20** (2023.01 - US); **H04L 1/1607** (2013.01 - US); **H04L 1/1812** (2013.01 - US); **H04L 5/0023** (2013.01 - US); **H04L 2027/0093** (2013.01 - EP)

Citation (applicant)

- EP 16160533 A 20160315
- EP 16163943 A 20160405
- EP 16171552 A 20160526
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Citation (search report)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2017157762 A1 20170921**; DE 112017000016 T5 20171130; EP 3414876 A1 20181219; EP 3414876 B1 20201125; EP 3800849 A1 20210407; US 10999043 B2 20210504; US 11700105 B2 20230711; US 2017317806 A1 20171102; US 2021258128 A1 20210819; US 2023353328 A1 20231102

DOCDB simple family (application)

**EP 2017055581 W 20170309**; DE 112017000016 T 20170309; EP 17709447 A 20170309; EP 20209657 A 20170309; US 201715654611 A 20170719; US 202117246825 A 20210503; US 202318349232 A 20230710